

ABSTRACT OF THE DISCLOSURE

A method for preparing an organosilane functionalized in the 3 position includes reacting an allyl compound ($\text{H}_2\text{C}=\text{CH}-\text{CH}_2\text{X}$) with a silane ($\text{R}^1\text{R}^2\text{R}^3\text{SiH}$) in a reaction column under a pressure between 1 bar and 25 bar, in the presence of a heterogeneous platinum catalyst. The silane reactant is present in the reaction column, and introduced into the reaction column, in a stoichiometric excess with respect to the allyl compound. The reaction column preferably includes a reaction zone, a first separation zone located above the reaction zone, and a second separation zone located below the reaction zone, wherein a first product exits the reaction zone and enters the first separation zone, and a second product exits the reaction zone and enters the second separation zone. Distillation occurs simultaneously with the reaction in the reaction chamber. In one preferred aspect of this invention, chloropropyltrichlorosilane is produced by reacting allyl chloride with trichlorosilane.